

OHM-ONS

LOW VOLTAGE SWITCHGEAR COMBINATION ONS 5.1

SYSTEM DESCRIPTION

The low-voltage switchgear combination ONS 5.1 offers a modern and future-proof solution for various applications thanks to its extensive expansion options, fixed-mounted or withdrawable technology, and full withdrawable units.

The modular system design allows for a wide range of combinations tailored to project-specific requirements.

The switchgear panels can be configured with internal partitions from Form 1 to Form 4b.

Withdrawable units can be realized in both plug-in and switched versions.

APPLICATION AREAS

- Energy providers & infrastructure
- Data centers
- Medical facilities & sectors
- Oil & gas
- Industry
- Defense and disaster protection

SYSTEM FEATURES

- Design-tested according to IEC 61439-1/-2 and EN 61439-1/-2
- Arc fault-resistant design according to IEC/TR 61641 possible
- High operational safety, personnel safety and availability
- Compact and space-saving design
- Flexible expansion – no restriction to specific switchgear devices
- Customer-specific solutions can be implemented quickly



TECHNICAL DATA

GENERAL DATA

+	Rated impulse withstand voltage	8 kV
+	Overvoltage category	III
+	Pollution degree	3
+	Rated operational voltage Ue	AC 690V / DC 750V
+	Rated insulation voltage Ui	1000 V
+	Rated frequency	50/60 Hz
+	Degree of protection according to IEC 60529	IP30 (up to IP42 possible)
+	Protection class	I (earthed)
+	Internal partitioning	Form 1 to Form 4 b
+	Surface protection	Frame: Alu-zinc coated Panels/doors: Steel sheet, powder-coated

BUSBARS

+	Rated current Ie	up to 6300A
+	Rated peak withstand current Ipk	up to 330 kA
+	Rated short-time withstand current	up to 150 kA

FIELD DISTRIBUTION BARS

+	Rated current Ie	up to 1900A
+	Rated peak withstand current Ipk	up to 220 kA
+	Rated short-time withstand current	up to 100 kA

DIMENSIONS / TRANSPORT UNITS

+	Height (mm)	Standard: 2200 (other heights on request)
+	Width (mm)	400, 600, 800, 1.000, 1.200
+	Depth (mm)	400, 600, 800, 1.000, 1.200
+	Grid spacing	E=25mm according to DIN 43600
+	Delivery	Panels supplied in individual transport units

ARC FAULT RESISTANCE - OPTIONAL

+	Arc fault protection	up to 100 kA at 400 V AC 50 Hz, 300 ms depending on arc fault level
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ISO 9001:2015 NR.14041/0
ISO 45001:2018 NR.00015/0
ISO 14001:2015 NR.03322/0

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ENERGY